

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

MURPHEY LAV ATTN: JOHN J M	URPHEY R ONE SUITE 260)	WACHSMA ART UNIT	
CARLSBAD, CA 920091027			•	2857	702-111000
•	\		I	DATE MAILED: 07/23/2002	
APPLICATION NO.	FILING DATE	FIRST NA	MED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/141,964	08/28/1998		EL A. MARINO		1517
TITLE OF INVENTION: L	OW-POWER/WIDEBAND	TRANSFER FUNCTION N	MEASUREMENT METHOD A	AND APPARATUS	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$640	\$0	\$640	10/23/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

 Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Washington, D.C. 20231

Fax (703)746-4000

appropriate. All further com indicated unless corrected b maintenance fee notification	espondence including the elow or directed otherw s.	e Patent, advance orders ise in Block 1, by (a) sp	and notification ecifying a new co	of maintenance for prespondence add	required). Blocks 1 through 4 sees will be mailed to the current lress; and/or (b) indicating a separate sees.	correspondence address a arate "FEE ADDRESS" fo
MURPHEY LAW ATTN: JOHN J MU PACIFIC CENTER 701 PALOMAR AI CARLSBAD, CA 9	90 07/23/2002 VOFFICES URPHEY LONE SUITE 260 IRPORT ROAD		Block ()	Fee(s) Transm accompanying formal drawing, I hereby certify United States Pe envelope addres	ate of mailing can only be used for ittal. This certificate cannot papers. Each additional paper, s must have its own certificate of n Certificate of Mailing or Tran- that this Fee(s) Transmittal is ostal Service with sufficient posta ssed to the Box Issue Fee address te USPTO, on the date indicated b	be used for any other such as an assignment or nailing or transmission. smission being deposited with the ge for first class mail in an above, or being facsimile
,						(Depositor's name
						(Signatur
						(Date
APPLICATION NO.	FILING DATE	FIRS	ST NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/141,964	08/28/1998		CHAEL A. MAR		ATTORIUS DOCUMENTO	1517
APPLN. TYPE nonprovisional	SMALL ENTITY YES	ISSUE FEE \$640	PUBL	ICATION FEE	TOTAL FEE(S) DUE \$640	DATE DUE 10/23/2002
EXAMIN	NER	ART UNIT	CLASS-SUBC	LASS		
WACHSMA	N, HAL D	2857	702-11100	00		
1. Change of corresponden CFR 1.363). Change of corresponde Address form PTO/SB/12 "Fee Address" indicating PTO/SB/47; Rev 03-02 of Number is required. 3. ASSIGNEE NAME AND	ence address (or Change of 22) attached. on (or "Fee Address" Indoor more recent) attached.	of Correspondence ication form Use of a Customer O BE PRINTED ON THE	the names of u or agents OR, single firm (h attorney or ag registered pater is listed, no name	/	patent attorneys the name of a ber a registered nes of up to 2 ents. If no name 3	
been previously submitted (A) NAME OF ASSIGNE	to the USPTO or is being	g submitted under separat	of the property of the ecover. Completion ESIDENCE: (CIT	on of this form is	of assignee data is only appropria NOT a substitute for filing an assi COUNTRY)	te when an assignment na gnment.
Please check the appropriate 4a. The following fee(s) are		• •	ed on the patent) syment of Fee(s):	☐ individual	☐ corporation or other private g	roup entity 🚨 governme
☐ Issue Fee			heck in the amour			
☐ Publication Fee		🗅 Pay	ment by credit car	d. Form PTO-203	8 is attached.	
☐ Advance Order - # of C	copies		Commissioner is sit Account Numb		l by charge the required fee(s), or (enclose an extra copy of this	
Commissioner for Patents is	requested to apply the Is	sue Fee and Publication I	Fee (if any) or to r	e-apply any previ	ously paid issue fee to the applica	tion identified above.
(Authorized Signature)		(Date)				
NOTE; The Issue Fee and	d Publication Fee (if rec	quired) will not be accep	oted from anyone			

other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/141,964 08/28/1998		MICHAEL A. MARINO		1517
7590 07/23/2002 MURPHEY LAW OFFICES ATTN: JOHN J MURPHEY PACIFIC CENTER ONE SUITE 260 701 PALOMAR AIRPORT ROAD CARLSBAD, CA 920091027			EXAMINI	ER
			WACHSMAN, HAL D	
			ART UNIT	PAPER NUMBER
			2857	
			DATE MAILED: 07/23/2002	

Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspu.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/141,964 08/28/1998 MICHA		MICHAEL A. MARINO	1517		
75	590 07/23/2002		EXAMIN	ER	
MURPHEY LAV			WACHSMAN	, HAL D	
ATTN: JOHN J ME PACIFIC CENTER			ART UNIT	PAPER NUMBER	
701 PALOMAR A			2857		
CARLSBAD, CA	920091027		DATE MAILED: 07/23/2002		

Notice of Fee Increase on October 1, 2002

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2002, then the amount due may be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2002. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Notice of Proposed Rulemaking, 67 Fed. Reg. 30634, 30636 (May 7, 2002). Although a change to the amount of the publication fee is not currently proposed for October 2002, if the issue fee or publication fee is to be paid on or after October 1, 2002, applicant should check the USPTO web site for the current fees before submitting the payment. The USPTO Internet address for the fee schedule is: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after October 1, 2002 (or mailed with a certificate of mailing on or after October 1, 2002), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2002, 37 CFR 1.18 is proposed to be revised to change the patent issue fees as set forth below. As stated above, the final fees may be a different amount, and applicant should check the web site given above when paying the fee.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

By a small entity (Sec. 1.27(a))--\$655.00 By other than a small entity--\$1,310.00

(b) Issue fee for issuing a design patent:

By a small entity (Sec. 1.27(a))--\$235.00 By other than a small entity--\$470.00

(c) Issue fee for issuing a plant patent:

By a small entity (Sec. 1.27(a))--\$315.00 By other than a small entity--\$630.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Page 4 of 4

7	Application No.	Applicant(s)			
Notice of Allowability	09/141,964	MARINO ET AL.			
Notice of Allowability	Examiner	Art Unit	11		
	Hal D Wachsman	2857			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.					
 This communication is responsive to <u>Amendment (5-21-02</u>) The allowed claim(s) is/are <u>77-123</u>. The drawings filed on are accepted by the Examine Acknowledgment is made of a claim for foreign priority und a) All b) Some* c) None of the: 	r. er 35 U.S.C. § 119(a)-(d) or (f).		^		
 Certified copies of the priority documents have 					
Certified copies of the priority documents have					
3. Copies of the certified copies of the priority doc	cuments have been received in this	national stage applicati	on from the		
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:					
Acknowledgment is made of a claim for domestic priority un	idor 35	i			
(a) The translation of the foreign language provisional a	polication has been received	ional application).			
6. Acknowledgment is made of a claim for domestic priority un					
and the same was a second of a statement defined to priority and	del 30 0.0.0. 93 120 and/01 121.				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of t	this communication to file a reply co his application. THIS THREE-MOI	omplying with the requir	rements noted		
7. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives reason	tted. Note the attached EXAMINER on(s) why the oath or declaration is	R'S AMENDMENT or No deficient.	OTICE OF		
 8.					
(b) including changes required by the proposed drawing c Examiner.	orrection filed <u>06 August 2001</u> , wh	ich has been approved	by the		
(c) ☐ including changes required by the attached Examiner's	Amendment / Comment or in the C	Office action of Paper N	o		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the top margin (not the back) of each sheet. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.					
9. DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT FOR THE	it of BIOLOGICAL MATERIAL n IE DEPOSIT OF BIOLOGICAL MA	nust be submitted. No TERIAL.	ote the		
Attachment(s)	,				
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449), Paper No	4☐ Interview Summa 6☐ Examiner's Amer	Il Patent Application (Pary (PTO-413), Paper North Ment Comment Interference of Reasons for Al HALWACI PRIMARY	lo		

Application/Control Number: 09/141,964

Art Unit: 2857

1.

REASONS FOR ALLOWANCE

Claims 77-105 are allowable over the prior art because the prior art does not disclose or suggest the combination of the following steps: exciting at a low power a physical system with a wide band excitation input signal; interconnecting spatially distributed data recorders/processors to an acquisition control computer using a telemetry network; simultaneously receiving and recording the wide band excitation

input signal in the data recorders/processors; and using a stochastic process to derive

from the recorded wide band excitation input signals a system transfer function for the

physical system over the width of the wide band excitation input signal.

The following is an examiner's statement of reasons for allowance: d

Claims 106-108 are allowable over the prior art because the prior art does not disclose or suggest the combination of the following steps: exciting at a low power a system with wide band excitation signals; interconnecting distributed data recorders/processors to an acquisition control computer using a telemetry network; simultaneously receiving and recording the wide band excitation input signals and a frequency synchronization signal in the data recorders/processors at each location; sending the recorded wide band excitation input signals and the frequency synchronization signal to the acquisition control computer via the telemetry network and analyzing the recorded wide band excitation input signals using stochastic processing techniques to estimate the system transfer function.

Application/Control Number: 09/141,964

Art Unit: 2857

Claims 109-119 are allowable over the prior art because the prior art does not disclose or suggest the combination of the following features: a waveform synthesizer for generating a synthesized low-power, wide band waveform signal and exciting a physical system with the synthesized low-power, wide band waveform signal; and a controller means for simultaneously commanding the waveform synthesizer to broadcast the synthesized low-power, wide band waveform signal to excite the physical system and to send a synchronization signal through a network arrangement to cause a first data recorder/processor to sample the synthesized low-power, wide band waveform signal, to cause second and third data recorders/processors to measure and record the signals received in the physical system from the low-power, wide band input signal, and to cause the first, second and third data recorders/processors to send the measured and recorded signals in digital format in synchronized form through the network arrangement to an acquisition control computer for later processing to compute a transfer function of the physical system.

Claims 120-123 are allowable over the prior art because the prior art does not disclose or suggest the combination of the following steps: exciting at a low power a physical system with a wide band excitation input signal; interconnecting spatially distributed data recorders/processors to an acquisition control computer using a telemetry network; simultaneously receiving and recording the wide band excitation input signal in the data recorders/processor at each spatially distributed location; sending the recorded wide band excitation input signals to the acquisition control computer via the telemetry network and using a stochastic process to derive from the

Application/Control Number: 09/141,964

Art Unit: 2857

recorded signals a system transfer function for the physical system over the width of the

Page 4

wide band excitation signal.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the 2.

examiner should be directed to Hal D Wachsman whose telephone number is 703-305-

9788. The examiner can normally be reached on Monday to Friday 7:00 A.M. to 4:30

P.M.,

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Marc Hoff can be reached on 703-308-1677. The fax phone numbers for

the organization where this application or proceeding is assigned are 703-308-7722 for

regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0956.

Primary Examiner

Art Unit 2857

HW

July 20, 2002



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trade rk Office

Address: ASSISTANT COMMISSIONER FOR PATENTS

Washington, D.C. 20231

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION		ATTORNEY DOCKET NO.
				EXAMINER
			ART UNIT	PAPER
				20

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Hal D Wachsman Primary Examiner Art Unit: 2857